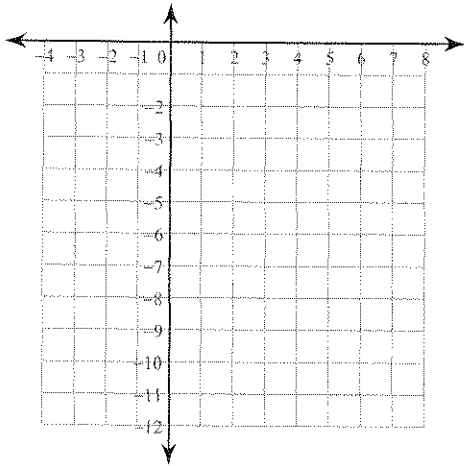


HW 23-Graphing Quadratics

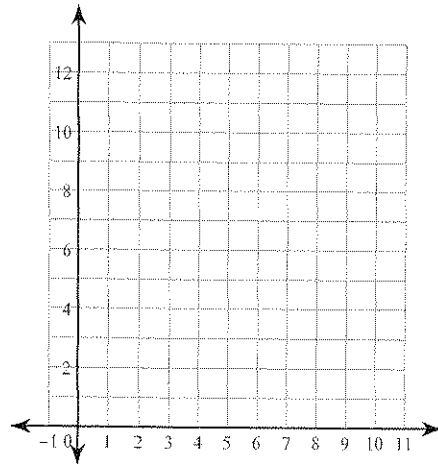
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A) Make a table B) Graph C) Identify axis of symmetry and vertex

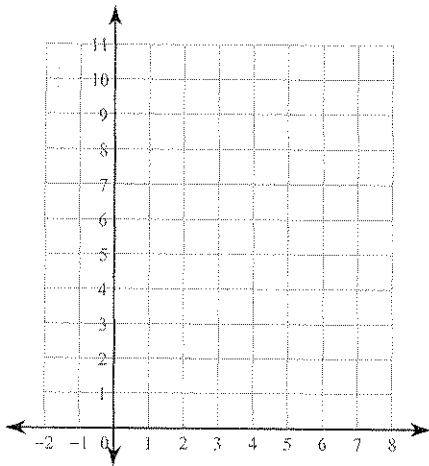
1) $y = -2x^2 + 8x - 11$



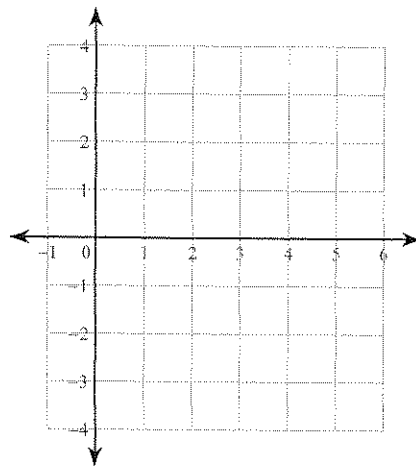
2) $y = 2x^2 - 12x + 22$



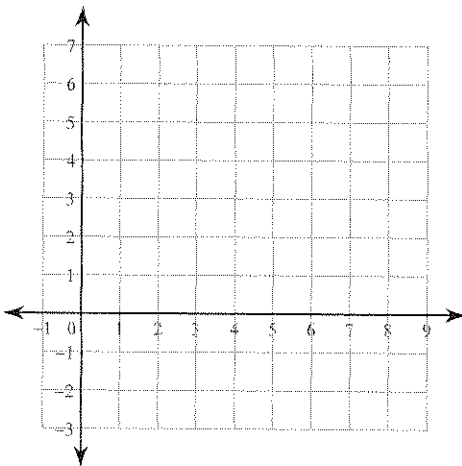
3) $y = 2x^2 - 12x + 20$



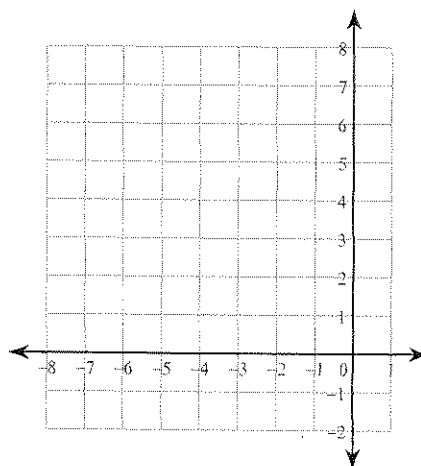
4) $y = x^2 - 8x + 14$



5) $y = 2x^2 - 8x + 6$



6) $y = 2x^2 + 16x + 31$



Homework 23

Graph $y = ax^2 + bx + c$

Mixed Review

Name: _____

Period: _____ Date: _____

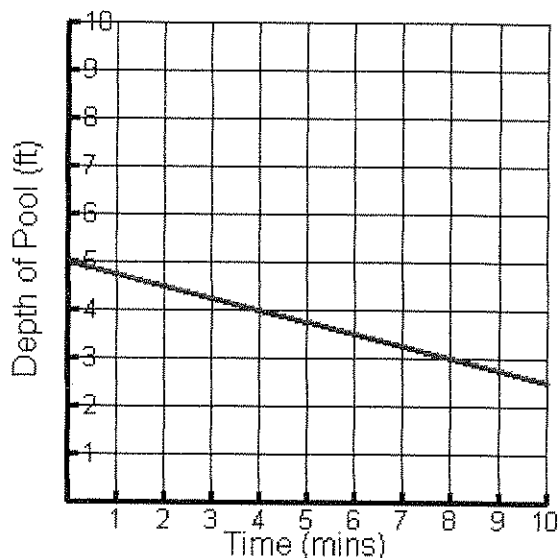
1. What is the solution set of $|5c - 10| < 25$?

- A. $\{c > -3 \text{ or } c < 7\}$
- B. $\{c < -3 \text{ or } c > 7\}$
- C. $\{c < 7 \text{ and } c < -3\}$
- D. $\{c > 7 \text{ and } c < -3\}$
- E. $\{c < 7 \text{ and } c > -3\}$

2. Which of the following identifies exactly those values of z that satisfy $|4z + 12| \geq 36$?

- A. $z \geq 6$
- B. $-12 \leq z \leq 6$
- C. $z \geq 6 \text{ or } z \leq -12$
- D. $-6 \leq z \leq 12$
- E. $z \leq -6 \text{ or } z \geq 12$

3. The water in a swimming pool is initially 5 feet deep. The water is then drained at a constant rate until the pool is empty. The graph below shows the water level $L(t)$ in the tank as a function of time (t).



Which of these functions represents the relationship between the time and water level?

- A. $L(t) = -\frac{1}{4}t + 5$
- B. $L(t) = -\frac{1}{4}t - 5$
- C. $L(t) = -4t + 5$
- D. $L(t) = -4t - 5$
- E. $L(t) = -5t + 4$

5) Two buses leave a bus station located at Madison (0° North) and the State (0° East) or $(0,0)$ in standard coordinate plane. One of the buses moves 10 miles per hours and travel 2 hour north, and then 1 hour west. The other bus moves at 25 miles per hour and travels 3 hours west and then 1 hour north. Which of the following is an expression for the number of miles apart the buss will be in 3 hours after they leave the bust station?

- A) $(2 \times 20) + (2 \times 25)$
- B) $(3 \times 25) + (2 \times 10)$
- C) $\sqrt{(75 - 10)^2 + (25 - 20)^2}$
- D) $\sqrt{(25 - 10)^2 + (75 - 20)^2}$
- E) $\sqrt{(25 - 10)^2 + (25 - 20)^2}$